

lec 12 :- Example of predg.  
Family Relationships.

→ Internet.

male(james 1). female(Catherine).

male(Charles 1). female(Elizabeth).

male(Charles 2). female(Sophia).

male(james 2).

male(George 1).

parent(Charles 1, james 1).

parent(Elizabeth, james 1).

⋮

father

→ male  
→ parent.

father(x, y) :- male(x), parent(x, y).

mother(x, y) :- female(x), parent(x, y).

Sister(x, y) :- female(x),  
parent(z, x),  
parent(z, y).

:- female(x, y),  
father(z, x),  
father(z, y).

:- ?

Brother(x, y) :- male(x),  
parent(z, x),  
parent(z, y).

Grandfather(x, y) :- male(x),  
parent(z, x).

- parent,  
- male  
- female.

→ female.  
x is sister  
of y  
↓  
male, female

→ GR.

Grandfather (X, Y) :- male(X),  
 parent(Z, X),  
 parent(X, Z).

Grandmother (X, Y) :- ?

Uncle (X, Y) :- male(X),  
 parent(Z2, X),  
 parent(Z2, Z1),  
 parent(Z1, Y).

aunt :- ?

Cousin .









